# **Bridge Renovation -- No. 509753**

Category Transportation
Agency Public Works & Transportation
Planning Area Countywide

Date Last Modified Previous PDF Page Number Required Adequate Public Facility

January 31, 2002 11-53 (01 App) NO

Relocation Impact None.

**EXPENDITURE SCHEDULE (\$000)** 

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Cost Element	Total	Thru FY01	Estimate FY02	Total 6 Years	FY03	FY04	FY05	FY06	FY07	FY08	Beyond 6 Years
Planning, Design											
and Supervision	271	0	61	210	35	35	35	35	35	35	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements											
and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	2,816	0	506	2,310	385	385	385	385	385	385	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	3,087	0	567	2,520	420	420	420	420	420	420	*
				FUNDIN	G SCHED	ULE (\$000)	)				
G.O. Bonds	1,725	0	567	1,158	193	193	193	193	193	193	0
State Aid	1,362	0	0	1,362	227	227	227	227	227	227	0
ANNUAL OPERATING BUDGET IMPACT (\$000)											

#### DESCRIPTION

This project provides funds to renovate County bridges that have been identified as needing repair and replacement work beyond routine maintenance levels to assure continued safe functioning as components of the transportation infrastructure. Renovation work involves preliminary engineering, planning, project management, inspection, and construction. Construction is performed on several essential components of the bridge structures. Superstructure replacement items include bridge decking, support beams, beam bearing assemblies, expansion joints, and concrete beams. Substructure replacement items include concrete bridge abutments, backwalls, and wingwalls. Culvert repairs include concrete headwalls, structural steel plate pipe arch replacements, installation of concrete inverts, and placement of stream scour protection. Other renovation work includes paving of bridge deck surfaces, bolted connection replacements, stone slope protection, reconstruction of approach roadway, concrete crack injection, deck joint material replacement, placement of concrete curtain walls for scour protection, and installation of traffic safety barriers. Many projects require traffic control measures such as road closures and lane shifts. The community outreach program has been established as a vital component to inform the public of road closures and detour routes. Projects are reviewed and scheduled to reduce as many community impacts as possible, especially to school bus routes.

## Service Area

Countywide

### Capacity

The highway vehicle capacities will remain the same.

#### JUSTIFICATION

There is currently a backlog of 65 bridges (based on the 1999 bridge inspection cycle) needing renovation to remain effective and safe components of the County highway system. The backlog of bridges will fluctuate from one inspection cycle to the next due to deterioration, or because bridges may be renovated or replaced between inspections.

#### **Plans and Studies**

The Biennial Bridge Inspection Program, a Federally-mandated program, is the main resource used to obtain specific information and to identify deficient bridge elements.

## **Cost Change**

Addition of FY07 and FY08 to this ongoing project

## STATUS

Various stages (from conceptual to operational).

### **OTHER**

The main objective of this program is to identify bridges requiring extensive structural repairs and perform the work in a timely manner to avoid emergency situations and major public inconvenience. This work is coordinated with the routine maintenance performed by the Highway Services Division. \*The Expenditures for this program will continue indefinitely.

## FISCAL NOTE

State aid for this project is available with a limit of \$227,000 per year.

APPROPRIATION AN		
EXPENDITURE DATA		
Date First Appropriation	FY97	(\$000)
Initial Cost Estimate		2,100
First Cost Estimate		
Current Scope	FY03	3,087
Last FY's Cost Estimate		2,547
Present Cost Estimate		3,087
Appropriation Request	FY03	420
Appropriation Request Est.	FY04	420
Supplemental		
Appropriation Request	FY02	0
Transfer		250
Cumulative Appropriation		317
Expenditures/		
Encumbrances		175
Unencumbered Balance		142
Partial Closeout Thru	FY00	2,153
New Partial Closeout	FY01	550
Total Partial Closeout		2,703

# COORDINATION

**MSHA** 

MD-Department of Natural Resources
MC-Department of Permitting Services

M-NCPPC

MC-Division of Traffic and Parking Services
The Executive asserts that this project conforms to
the requirements of relevant local plans as required
by the Maryland Economic Growth, Resource

Protection and Planning Act.

